## 2023 Vehicle Technologies Office Annual Merit Review Electrification R&D (ELT) Detailed Schedule

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Tuesday, June 13, 2023		Wednesday, June 14, 2023		Thursday, June 15, 2023		
10:00 AM	ELT215: Develop fine-grain RE permanent magnet with high	10:00 AM	ELT252: Wound-Field Synchronous Machine-System	10:00 AM	<b>ELT240</b> : Wireless Extreme Fast Charging for Electric Trucks	
TU.UU AIVI	coercivity at high temperature AND cost-effective		Integration toward Increased Power Density and	10:15 AM		
10:15 AM	manufacturing process for high performance soft magnetic	10:15 AM	Commercialization, Lakshmi Iyer, Magna Services of	10:30 AM		
	materials in thin sheet form, Iver Anderson, Ames Laboratory		America Inc.	10:45 AM	,	
	<b>ELT216</b> : Isotropic, Bottom-Up Soft Magnetic Composites for	10:30 AM	<b>ELT255</b> : Cost-Effective, Rare-Earth-Free, Flux-Doubling,	11:00 AM		
10:45 AM	Rotating Machines, Todd Monson, SNL		Torque-Doubling, Increased Power Density Traction Motor	11:15 AM		
11:00 AM	<b>ELT211</b> : Power Electronics Thermal Management, Gilbert	10:45 AM	with Near-Zero Open-Circuit Back-Electromagnetic Field	11:30 AM	==1202. Zorig rango, rioary zatty zattory ziroano romoro	
11:15 AM	Moreno, NREL		and No-Cogging Torque, Jim Gafford, UNC-Charlotte	11:45 AM		
11:30 AM	<b>ELT209</b> : High-Voltage, High-Power Density Traction-Drive	11:00 AM	<b>ELT179</b> : Low Cost, High-Performance, Heavy Rare-Earth-		<b>ELT260</b> : Improving the Freight Productivity of a Heavy-Duty,	
11:45 AM	Inverter, Gui-Jia Su, ORNL	11:15 AM	Free 3-In-1 Electric Drive Unit, David Crecelius, American	12:15 PM		
12:00 PM I	ELT219: Power Electronics Materials and Bonded Interfaces-		Axle & Manufacturing		Teresa Taylor, Volvo	
12:15 PM	Reliability and Lifetime, Paul Paret, NREL	11:30 AM	ELT288: Scalable Ultra Power-Dense Extended Range	12:30 PM		
12:30 PM	Time Buffer	11:45 AM	(SUPER) Inverter, Harsha Nanjundaswamy, BorgWarner	12:40 PM		
12:40 PM	Lunch Break	12:00 PM	<b>ELT282</b> : Technology & Design Innovations to Maximize the	1:40 PM	<b>ELT261</b> : High-Efficiency Powertrain for Heavy-Duty Trucks	
1:40 PM	ELT208: Highly Integrated Power Module, Lincoln Xhue,	12:15 PM	Reduction Effect on DCFC Unit Cost Economics (Max-	1:55 PM	using Silicon Carbide Inverter, Steve Peelman, Ricardo	
1:55 PM	ORNL		REDUCE), Robert Keefover, BorgWarner	2:10 PM	ELT274: eMosaic: Electrification Mosaic Platform for Grid-	
	<b>ELT 223</b> : Component Testing, Co-Optimization, and Trade-	12:30 PM	Time Buffer		gg,	
2:25 PM	Space Evaluation, Jason Neely, SNL	12:40 PM	Lunch Break	2:40 PM	ELT264: Demonstration of Utility Managed Smart Charging	
2:40 PM	ELT221: Integrated Electric Drive System, Shajjad		<b>ELT289</b> : Rare Earth Free Motor Designs with MnBI, Robert	2:55 PM	For Multiple Benefit Streams, Stephanie Leach,	
2:55 PM	Chowdhury, ORNL	1:55 PM	Kinner, PowderMet Inc.	0.40 0.4	Exelon/Pepco Holdings Inc.	
3:10 PM	Time Buffer	2:10 PM	ELT290: Behind-the-Meter-Storage, Matt Keyser, NREL	3:10 PM 3:15 PM	Time Buffer	
3:15 PM	Break	2:25 PM	·	3:15 PM 3:45 PM	Break  ELT265: A Secure and Resilient Interoperable SCM Control	
3:45 PM	<b>ELT285</b> : Development and Demonstration of Zero-Emission	2:40 PM	ELT291: Enabling Extreme Fast Charging with Energy	4:00 PM	System Architecture for Electric Vehicle's-At-Scale, Duncan	
4:00 PM	Technologies for Commercial Fleets (Supertruck 3), Maarten	2:55 PM 3:10 PM	Storage, Jonathan Kimball, Missouri University S&T	4.00 PM	Woodbury, Dream Team LLC	
	Meijer, PACCAR	3:10 PM 3:15 PM	Time Buffer Break	4:15 PM	ELT236: Direct-Current Conversion Equipment Connected	
4:15 PM	ELT286: A Zero Emission Freight Future (SuperTruck 3),		ELT158: Zero-Emission Cargo Transport II: San Pedro Bay	4:30 PM	to the Medium-Voltage Grid for Extreme Fast Charging	
4:30 PM	Eric Bond, Volvo		Ports Hybrid & Fuel-Cell Electric Vehicle Project,		Utilizing Modular and Interoperable Architecture, Watson	
4:45 PM	<b>ELT287</b> : Cummins High Power Density Inverter, Santhosh	4:00 PM	Seungbum Ha, SCAQMD		Collins, EPRI	
5:00 PM	Krishnamoorthi, Cummins	4:15 PM	ELT197: High Power and Dynamic Wireless Charging of	4:45 PM	<b>ELT238</b> : Intelligent, Grid-Friendly, Modular Extreme Fast	
5:15 PM	Day 1 Ends	4:30 PM	Electric Vehicles, Veda Galigekere, ORNL		Charging System with Solid-State Direct-Current Protection,	
		4:45 PM	ELT239: High-Power Inductive Charging System		Srdjan Lukic, North Carolina State University	
		4.45 PIVI	Development and Integration for Mobility, Omer Onar,	5:15 PM		
		5:00 PM	ORNL	5:30 PM	for DC Fast Charging Equipment Connected Directly to	
		5:15 PM	Day 2 Ends		Medium Voltage Distribution System, Srdjan Lukic, North	
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l l				5:45 PM	AMR Fnds	